

1-GATEWAY
09/025,143In the Claims:

Claims 1-22 (previously cancelled)

23. (Currently Amended) A computer readable medium comprising digital data working in conjunction with a computer to retrieve object definition information, said digital data comprising:

one or more computer programs for storing object definition information, said programs comprising a parser for object definition information;

an object factory for instantiating objects encapsulating said object definition information without translating the object definition information, said objects having predefined interfaces in CORBA IDL; and

a root encapsulator object for resolving object definition name information into an object reference to an encapsulator object corresponding to an object definition type.

24. (Currently Amended) A computer readable medium comprising digital data working in conjunction with a computer to retrieve object definition information, said digital data comprising:

one or more software objects, said software objects comprising at least one interface defined in a first notation for manipulating an object having an interface at least partially defined in a second notation without translating the at least partial definition from the second notation into the first notation, said second notation being different from said first notation, wherein the first notation comprises CORBA IDL and the second notation comprises ASN.1.

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25. (Currently Amended) A computer-based method of constructing an object invocation comprising the steps of:

instantiating ~~an object~~ a collection of objects corresponding to rules specifying the syntax of said object invocation;

receiving information of the content of the object invocation; and

interrogating the object collection with the information to determine a set of objects sufficient to construct the invocation without translating the information into the syntax of the object invocation.

26. (Currently Amended) A computer-based method facilitating a calling object to invoke a target object, said method comprising the steps of:

instantiating one or more objects corresponding to an interface associated with said target object, each of said objects having an interface defined in a first-second notation which is statically acquired by an invoker, whereby and each such interface being pre-defined and non-application-specific object invocation is performed without run-time discovery of interfaces, said target object's interface defined in a second-first notation; and

facilitating said calling object to call said target object by invoking said one or more objects defined in said first-second notation without said calling object having to discover any interfaces at run-time generating a new interface defined in said first notation.

27. (Currently Amended) A computer-based method facilitating a calling object to invoke a target object, as per claim 26, wherein said first-second notation comprises CORBA IDL.

28. (Currently Amended). A computer-based method facilitating a calling object to invoke a target object, as per claim 26, wherein said second-first notation comprises ASN.1.

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29. (Currently Amended). A computer-based method facilitating a calling object to invoke a target object, as per claim 26, wherein said ~~second~~ first notation comprises GDMO.

30. (Currently Amended) A computer-based method to obtain object definition information regarding an interface associated with a target object, said method comprising the steps of:

instantiating one or more objects corresponding to an interface associated with said target object, each of said objects having an interface defined in a first-second notation which is statically acquired by a receiver, whereby ~~and each such interface being pre-defined and non-application-specific, such reception is performed without run-time discovery of interfaces,~~ said target object's interface defined in a ~~second~~ first notation; and

obtaining object definition information regarding said target object by invoking said one or more objects defined in said first-second notation without having to discover any interfaces at run-time ~~generating a new interface defined in said first notation.~~

31. (Currently Amended) A computer-based method to obtain object definition information regarding an interface associated with a target object, as per claim 30, wherein said first-second notation comprises CORBA IDL.

32. (Currently Amended). A computer-based method to obtain object definition information regarding an interface associated with a target object, as per claim 30, wherein said ~~second~~ first notation comprises ASN.1.

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33. (Currently Amended). A computer-based method to obtain object definition information regarding an interface associated with a target object, as per claim 30, wherein said ~~second-first~~ notation comprises GDMO.

34. (Currently Amended) An article of manufacture comprising a computer usable medium having computer readable program code facilitating a calling object to invoke a target object, said medium comprising:

computer readable program code instantiating one or more objects corresponding to an interface associated with said target object, each of said objects having an interface defined in a first-second notation which is statically acquired by an invoker, whereby and each such interface being pre-defined and non-application specific, object invocation is performed without run-time discovery of interfaces, said target object's interface defined in a ~~second-first~~ notation; and

computer readable program code facilitating said calling object to call said target object by invoking said one or more objects defined in said first-second notation without said calling object having to discover any interfaces at run-time generating a new interface defined in said first notation.

35. (Currently Amended) An article of manufacture comprising a computer usable medium having computer readable program code facilitating the reception of object definition information regarding an interface associated with a target object, said medium comprising:

computer readable program code instantiating one or more objects corresponding to an interface associated with said target object, each of said objects having an interface defined in a first-second notation which is statically acquired by a receiver, whereby and each such interface

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~~being pre-defined and non-application specific, such reception is performed without run-time discovery of interfaces, said target object's interface defined in a second-first notation; and~~
computer readable program code facilitating the ~~reception-acquirement~~ of object definition information regarding said target object by invoking said one or more objects defined in said ~~first-second~~ notation without ~~having to discover any interfaces at run-time generating a new interface defined in said first notation.~~